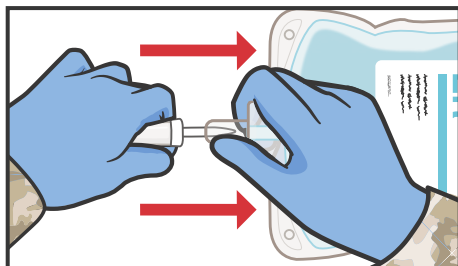


TIBIA INTRAOSSEOUS (EZ-IO®)



CONSIDER body substance isolation.

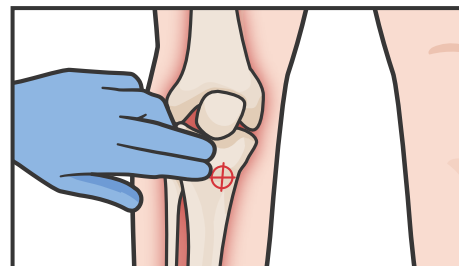
NOTE: If a Combat Lifesaver is available, direct them to assist.



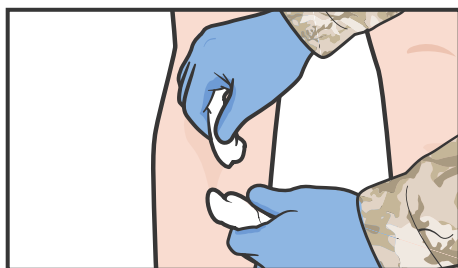
02 SPIKE intravenous (IV) bag and properly prepare IV tubing.



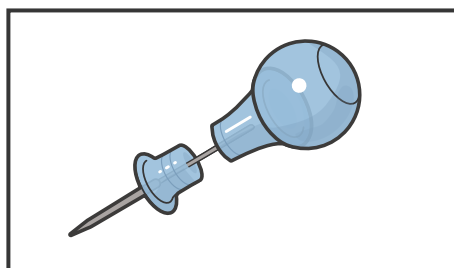
03 PRIME the IO extension tubing with sterile IV solution using aseptic technique.



04 LOCATE the proper site for EZ-IO insertion, one finger width medial to the proximal tibial tuberosity (usually found 3 cm below the patella).

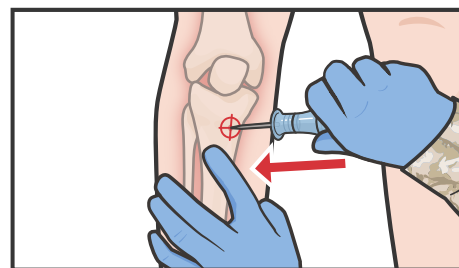


05 CLEAN site with alcohol or povidone-iodine pad.



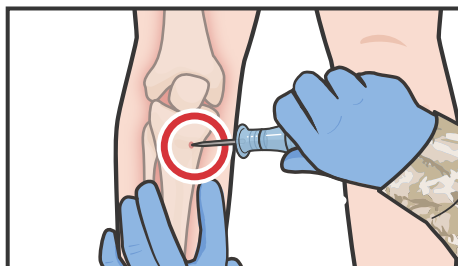
06 LOCATE the proper EZ-IO cartridge. If using a mechanical driver, open the EZ-IO cartridge and attach the needle set to the driver; you should feel a "snap" as the small magnet connects.

NOTE: The typical size cartridge is colored blue.



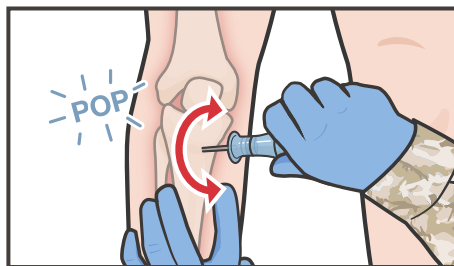
07 PREPARE the manual EZ-IO needle by removing the needle safety cap. If using the mechanical driver, remove the cap by momentarily powering the driver while holding the cap.

NOTE: Keep hands and fingers away from the needle.



08 While holding the driver or the needle set in your dominant hand, **STABILIZE** the leg near the insertion site with your nondominant hand.

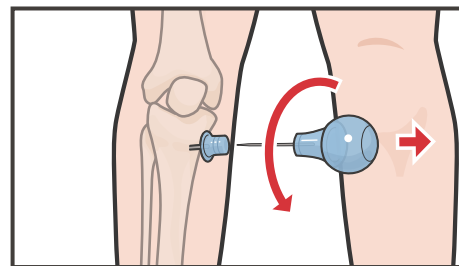
09 POSITION the driver or the needle set at the insertion site with the needle at a 90-degree angle to the surface of the bone.



10 PIERCE the skin and advance until the needle tip touches the bone, then

11 With **CONSISTENT** steady downward pressure, twist the needle set back and forth (or squeeze the driver's trigger) until you penetrate the bone cortex.

NOTE: An obvious give or pop is felt when the desired depth is obtained.

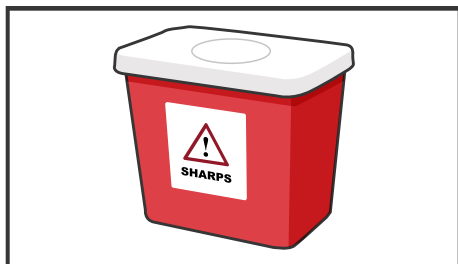


12 UNSCREW the stylet counter-clockwise and remove stylet from catheter. If using a mechanical driver, gently remove the drill from the needle.

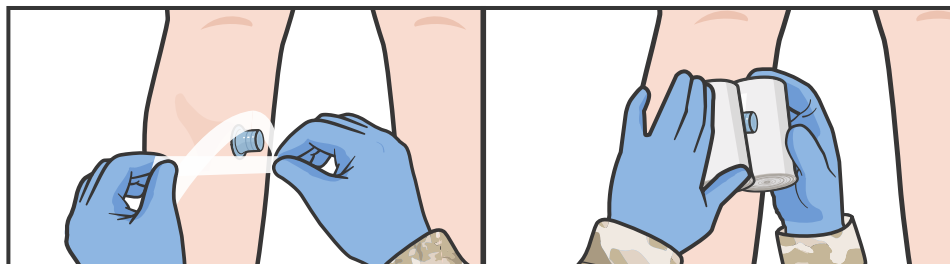
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TIBIA INTRAOSSEOUS (EZ-IO®)

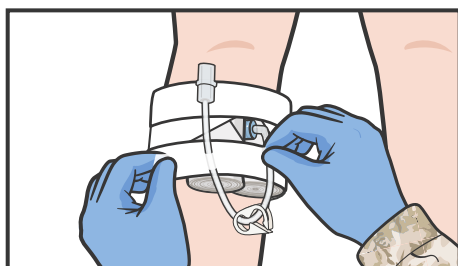
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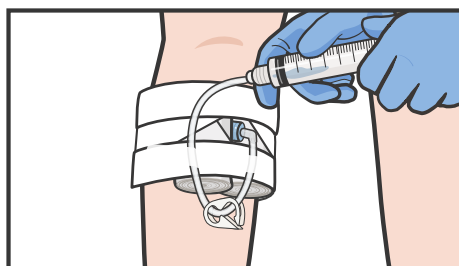
- 13** **PLACE** the stylet in a sharps container.



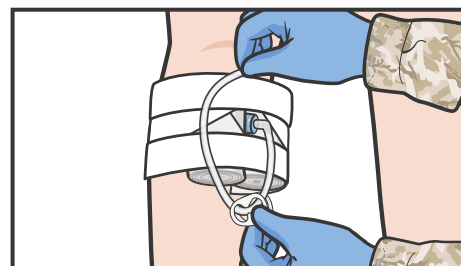
- 14** **SECURE** the site with an EZ-IO stabilizer, if available.
NOTE: If a stabilizer is unavailable, secure with bulky dressing and tape to prevent elevated extension tubing from becoming dislodged during casualty care or movement.



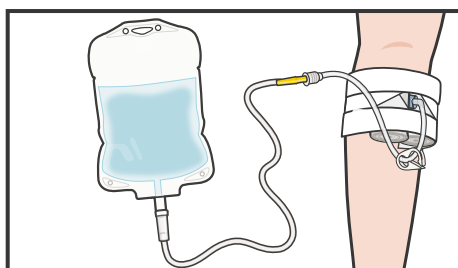
- 15** **CONNECT** primed extension set through the 90-degree IO tubing to the Luer lock EZ-IO hub.



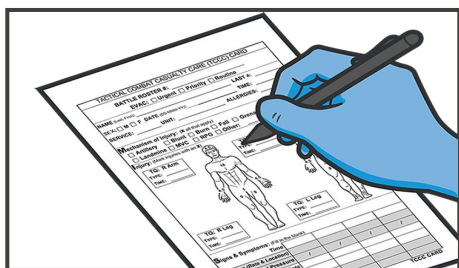
- 16** **ASPIRATE** to confirm needle is in the marrow (should see flash of blood-tinged material) and flush catheter with 10 ml flush using a rapid infusion.



- 17** **ASSESS** for signs of infiltration or complications.



- 18** **PREPARE** for fluid or medication administration.



- 19** **DOCUMENT** all findings and treatments on a DD Form 1380 TCCC Casualty Card and attach it to the casualty.